

WE CLAIM:

1 1. A metal carrier for a catalyst comprising:
2 a honeycomb structure shaped in a cylindrical form, said honeycomb structure
3 having a plurality of air vents extending in an axial direction thereof; and
4 a cylindrical case covering an outer peripheral surface of the honeycomb structure,
5 wherein the cylindrical case is composed of ferritic stainless steel containing Mo.

1 2. The metal carrier for a catalyst according to claim 1, wherein the Mo content in
2 the ferritic stainless steel is in the range of $0.30 \text{ wt\%} \leq \text{Mo} \leq 2.50 \text{ wt\%}$.

1 3. The metal carrier for a catalyst according to claim 1, and further including a
2 muffler housing wherein said cylindrical case is disposed within said muffler housing and is
3 displaced a predetermined distance relative to an interior wall of the muffler housing to
4 form a space therebetween.

1 4. The metal carrier for a catalyst according to claim 1, wherein the honeycomb
2 structure is constructed of ferritic stainless steel that does not contain Mo.

1 5. The metal carrier for a catalyst according to claim 1, wherein the Mo content is
2 1.20 wt%.

1 6. The metal carrier for a catalyst according to claim 1, and further including a
2 catalyst layer of a noble metal formed on the honeycomb structure.

1 7. The metal carrier for a catalyst according to claim 6, wherein the noble metal is
2 platinum.

1 8. A metal carrier for a catalyst comprising:

2 a honeycomb structure having a catalyst layer formed thereon, said honeycomb
3 structure having a plurality of air vents extending in a flow direction through the
4 honeycomb structure; and

5 a cylindrical case covering an outer surface of the honeycomb structure, wherein the
6 cylindrical case is composed of ferritic stainless steel containing Mo.

1 9. The metal carrier for a catalyst according to claim 8, wherein the Mo content in
2 the ferritic stainless steel is in the range of $0.30 \text{ wt\%} \leq \text{Mo} \leq 2.50 \text{ wt\%}$.

1 10. The metal carrier for a catalyst according to claim 8, and further including a
2 muffler housing wherein said cylindrical case is disposed within said muffler housing and is
3 displaced a predetermined distance relative to an interior wall of the muffler housing to
4 form a space therebetween.

1 11. The metal carrier for a catalyst according to claim 8, wherein the honeycomb
2 structure is constructed of ferritic stainless steel that does not contain Mo.

1 12. The metal carrier for a catalyst according to claim 8, wherein the Mo content is
2 1.20 wt%.

1 13. The metal carrier for a catalyst according to claim 8, wherein the catalyst layer
2 is a noble metal formed on the honeycomb structure.

1 14. The metal carrier for a catalyst according to claim 13, wherein the noble metal is
2 platinum.